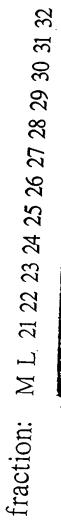


Figure 1



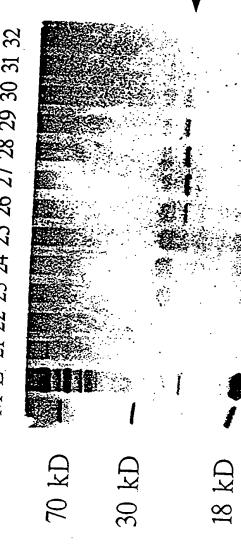


Figure 2a

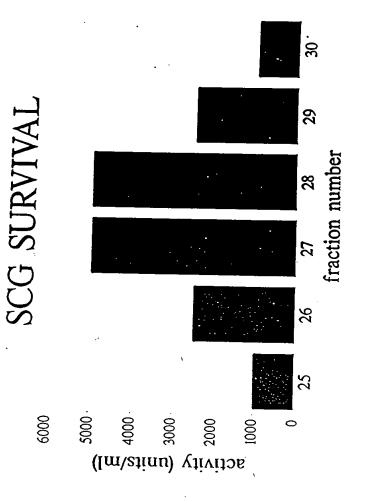


Figure 2b

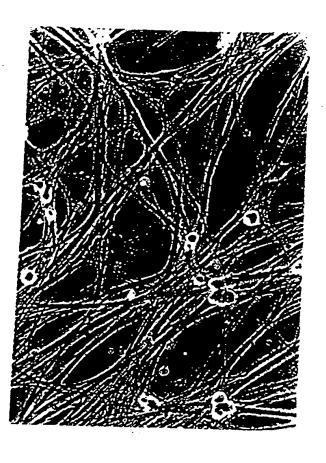


Figure 3a NGF



Figure 3b Anti-NGF

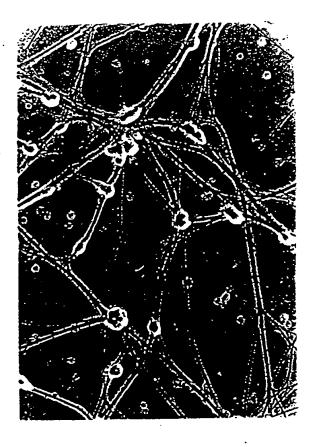


Figure 3c Anti-NGF + Neurturin

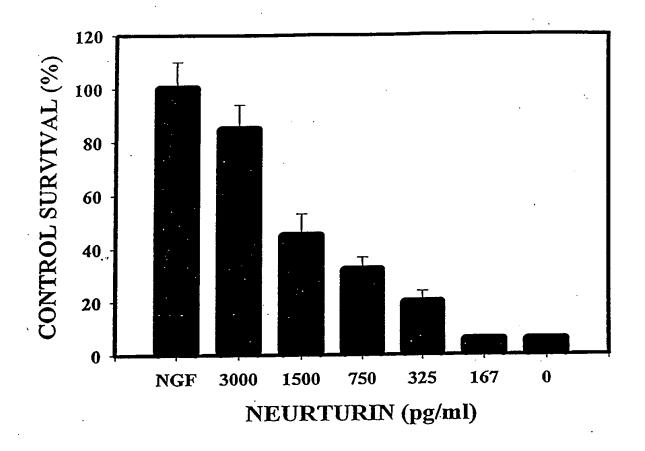
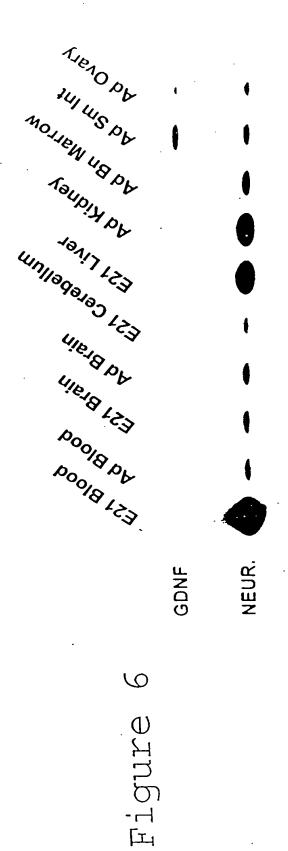


Figure 4

```
P.D K Q H A V L P R R E R N R Q A A A A N P E N S R G K G
               S P D K Q A A A L P R R E R N R Q A A A A S P E N S R G K G
S P D K Q A A A L P R R E R N R Q A A A A S P E N S R G K G
                                                                                                                                                                                    aGDNF
  1
                                                                                                                                                                                    rGDNF
                                                                                                                                                                                    HNTN
  1
                                                                                                                                                                                    aNTN
  1
             R R G Q R G K N R G C V L T A I H L N V T D L G L G Y E T K hGDNF R R G Q R G K N R G C V L T A I H L N V T D L G L G Y E T K mGDNF R R G Q R G K N R G C V L T A I H L N V T D L G L G Y E T K rGDNF - - - A R L G A R P C G L R E L E V R V S E L G L G Y A S D hNTN - - - - P G A R P C G L R E L E V R V S E L G L G Y T S D mNTN
 31
31
 31
 1
 1
           EELIFRYCSGSCDAAETTYDKILKNLSRNRELIFRYCSGSCESAETMYDKILKNLSRSRELIFRYCSGSCEAAETMYDKILKNLSRSRETVLFRYCAGACEAAARVYDLGLRRLRQRRETVLFRYCAGACEAAIRIYDLGLRRLRQRR
                                                                                                                                                                                    hGDNF
                                                                                                                                                                                    aGONF
 61
 61
                                                                                                                                                                                    rGONF
                                                                                                                                                                                   HNTN
 28
 26
          R L V S D K V - G Q A C C R P I A F D D D L S F L D D N L V HGONF R L T S D K V - G Q A C C R P V A F D D D L S F L D D N L V MGONF R L T S D K V - G Q A C C R P V A F D D D L S F L D D S L V CONF R L R R E R V R A Q P C C R P T A Y E D E V S F L D A H S R HNTN R V R R E R A R A H P C C R P T A Y E D E V S F L D V H S R MNTN
 91
 91
 91
58
          Y H I L R K H S A K R C G C I Y H I L R K H S A K R C G C I Y H I L R K H S A K R C G C I Y H T V H E L S A R E C A C V Y H T L Q E L S A R E C A C V
120
                                                                                                                                                                                    hGDNF
                                                                                                                                                                                    aiGDNF
120
                                                                                                                                                                                    rGDNF
120
88
                                                                                                                                                                                    HNTN
                                                                                                                                                                                    antn.
```

RT-PCR Analysis of Neurturin and GDNF



ATGCAGCGCTGGAAGGCGGCGCCTTGGCCTCAGTGCTCTGCAGCTCCGTGCTGTCCATC	60
Met Gln Arg Trp Lys Ala Ala Ala Leu Ala Ser Val Leu Cys Ser Ser Val Leu Ser I <u>le</u>	
TGGATGTGTCGAGAGGGCCTGCTTCTCAGCCACCGCCTCGGACCTGCGCTGGTCCCCCTG	120
Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His Arg Leu Gly Pro Ala Leu Val Pro Leu	.20
CACCGCCTGCCTCGAACCCTGGACGCCCGGATTGCCCGCCTGGCCCAGTACCGTGCACTC	100
	100
His Arg Leu Pro Arg Thr Leu Asp Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu	
${\tt CTGCAGGGGGCCCCGGATGCGATGGAGCTGCGCGAGCTGACGCCCTGGGCTGGGCGGCCCC}$	240
Leu Gln Gly Ala Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro	
CCAGGTCCGCCGTCGGGCGGGGCCCCCGGCGCGCGCGCGC	300
Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Ala Arg Ala Arg Leu Gly Ala	
CGGCCTTGCGGGCTGCGCGAGCTGGAGGTGCGCGTGAGCGAGC	360
Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly Tyr Ala	٠
TCCGACGAGACGGTGCTGTTCCGCTACTGCGCAGGCCGCGCGCG	420
Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val	
TACGACCTCGGGCTGCGACGACTGCGCCAGCGGCGCGCGC	480
Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val Arg	
GCGCAGCCCTGCTGCCGCCCGACGGCCTACGAGGACGAGGTGTCCTTCCT	540
Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His	٠
AGCCGCTACCACACGGTGCACGAGCTGTCGGCGCGCGAGTGCGCCTGCGTGTGA 594	
Ser Arg Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys Val •	

ATGAGGCGCTGGAAGGCAGCGGCCCTGGTGTCGCTCATCTGCAGCTCCCTGCTATCTGTC Met Arg Arg Trp Lys Ala Ala Leu Val Ser Leu IIe Cys Ser Ser Leu Leu Ser Val	60
TGGATGTGCCAGGAGGGTCTGCTCTTGGGCCACCGCCTGGGACCCGCGCTTGCCCCGCTA Trp Met Cys Gin Glu Gly Leu Leu Gly His Arg Leu Gly Pro Ala Leu Ala Pro Leu	120
CGACGCCCTCCACGCACCCTGGACGCCCGCATCGCCCGCC	
CTCCAGGGCGCCCCGACGCGGTGGAGCTTCGAGAACTTTCTCCCTGGGCTGCCCGCATC Leu Gin Gly Ala Pro Asp Ala Val Glu Leu Arg Glu Leu Ser Pro Trp Ala Ala Arg Ile	· 240
CCGGGACCGCGCGTCGAGCGGGTCCCCGGCGTCGGCGGGGCGCCGGGGGCTCGGCCT	300
Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg Pro Gly Ala Arg Pro TGTGGGCTGCGCGAGCTCGAGGTGCGCGTGAGCGAGCTGGGCCTGGGCTACACGTCGGAT	360
Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly Tyr Thr Ser Asp	
GAGACCGTGCTGTTCCGCTACTGCGCAGGCGCGTGCGAGGCGGCCATCCGCATCTACGAC	420
Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp	
CTGGGCCTTCGGCGCCTGCGCCAGCGGAGGCGCGTGCGCAGAGAGCGGGCGCGCGC	480
Leu Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His	
CCGTGTTGTCGCCCGACGGCCTATGAGGACGAGGTGTCCTTCCT	540
Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg	
TACCACACGCTGCAAGAGCTGTCGGCGCGGGGGGGGGGG	
Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys Val •	

GGAGGGAGAGCGCGGTGGTTTCGTCCGTGTGCCCCGCGCCCCGCGCGC	-301
TCTCGCGTGGCCCCGCGTCCTGAGCGCGCTCCAGCCTCCACGCGCGCCCC	-251
TCCTCGCGTGGCCCCGCGTCCTGAGCCCCCGAAGACAGAAAGAGA	201
ACCCCGGGGTTCACTGAGCCCGGGGAGGCCCGGGGAAGACAGAGAAAGAGA	-151
GGCCAGGGGGGAACCCCATGGCCCGGCCCGTGTCCCGCACCCTGTGCGG	-101
TGGCCTCCTCCGGCACGGGTCCCCCGGGTCCCCGCGATCC	
GGATGGCGCACGCAGTGGCTGGGGCCCGGGCCTCGGGTGGTCGGAGG	-51
AGTCACCACTGACCGGGTCATCTGGAGCCCGTGGCAGGCCCGAGGCCCAGG	-1
ATGAGGCGCTGGAAGGCAGCGCCCTGGTGTCGCTCATCTGCAGCTCCCT	50
GCTATCTGTCTGGATGTGCCAGGAGGGTCTGCTCTTGGGCCACCGCCTGG	100
GACCGCGCTTGCCCCGCTACGACGCCCTCCACGCACCCTGGACGCCCGC	150
	200
ATCGCCCGCCTGGCCCAGTATCGCGCCTCTGCTCCAGGGCGCCCCCGACGC	250
GGTGGAGCTTCGAGAACTTTCTCCCTGGGCTGCCCGCATCCCGGGACCGC	300
CCCTCCACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
TGTGGGCTGCGCGAGCTCGAGCTGCGCCTGAGCCTGGGCCTA	350
CACGTCGGATGAGACCGTGCTGTTCCGCTACTGCGCAGGCGCGTGCGAGG	400
CGGCCATCCGCATCTACGACCTGGGCCTTCGGCCCTGCGCCAGCGGAGG	450
CGCGTGCGCAGAGAGCGGGGGGGGGGGGGCGCACCGTGTTGTCGCCCGACGGC	500
CTATGAGGACGAGGTGTCCTTCCTGGACGTGCACAGCCGCTACCACACGC	550
	. 600
TGCAAGAGCTGTCGGCGCGGGAGTGCGCGTGCGTGTGATGCTACCTCACG	650
CCCCCGACCTGCGAAAGGGCCCTCCCTGCCGACCCTCGCTGAGAACTGA	679
COMMON CAMANA CTCTCCGAACTCCC	07.

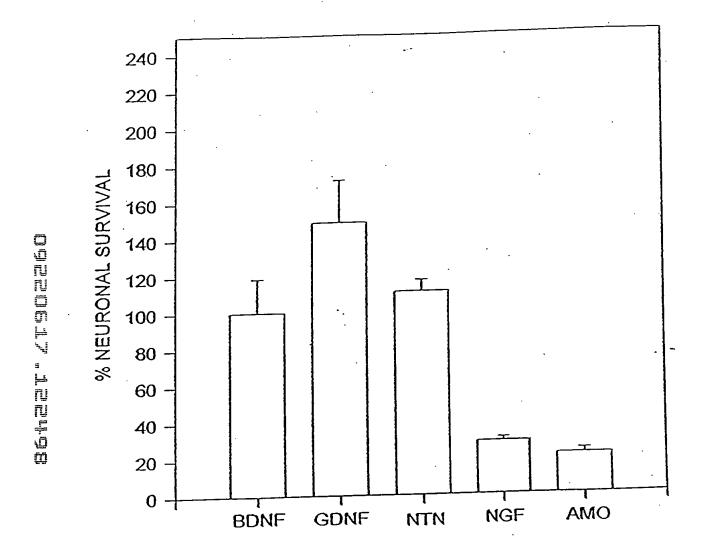


Figure 10

GAGGGACCTGGACGCCCCATCAGGGTAAGAATTCCTGGGGGCCTCCCGACTCCCCAATTC	60
Glu Gly Pro Gly Arg Pro Ile Arg Val Arg Ile Pro Gly Gly Leu Pro Thr Pro Gln Phe	20
CTTCTCTCAAAGCCCTCACTTTGCCTTACAATCCTACTCTACCTTGCACTAGGTAACAAC	120]
Leu Leu Ser Lys Pro Ser Leu Cys Leu Thr Ile Leu Leu Tyr Leu Ala Leu Gly Asn Asn	40
CATGTCCGTCTTCCAAGAGCCTTGGCTGGTTCATGCCGACTGTGGAGCCTGACCCTACCA	180
His Val Arg Leu Pro Arg Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro	60
GTGGCTGAGCTGGGCCTATGCCTCGGAGGAGAAGGTCATCTTCCGATACTGTGCT	240
GTGGCTGAGCTGGGCCTATGCCTCGGAAGGAAGAACAACGTCGTCGCTGAGCTGGGCTGGGCCTATGCCTCGGAAGGAA	80
GGCAGCTGTCCCCAAGAGGCCCGTACCCAGCACAGTCTGGTACTGGCCCGGCTTCGAGGG	300
Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg Gly	100
CGGGGTCGAGCCCATGGCCGACCCTGCTGCCAGCCAGCTATGCTGATGTGACCTTC	360
Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe	120
CTTGATGATCAGCACCATTGGCAGCAGCTGCCTCAGCTCTCAGCTGCAGCTTGTGGCTGT	420
Leu Asp Asp Gln His His Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala [‡] Ala Cys Gly Cys	140
GGTGGCTGAAGGAGGCCAGTCTGGTGTCTCAGAATCACAAGCATGAGACAGGCTGGGCTT	480
Gly Gly	142
TGAAAGGCTCAGGTGACATTACTAGAAATTTGCATAGGTAAAGATAAGAAGGGAAAGGAC	540
CAGG	544

	SIN BONT SON TO		S S S
40	SAJETJMY DK I LKNJLSRS AIRI - YOLGLRR LRQR EARTQHSLVLARLRGR	- &-	SAKRCGCI. SARECACV. SAAACGCGG.
- 88 -	FRYCISIGSCEI-SIMETIMI FRYCAGIACEIAAIRII-I FRYCAGSCIPQEIARIQI	- 8-	F L D D N L V Y H I L N K H S E L S - F L D Q H H S R Y H T L Q E L S - F L D Q H H W Q Q L P Q L S
-8	L G Y E T K E E L L L G Y T S D E T V L L G Y A S E E K V T	- 2	R PVJAF DOD LS R P TAYEOEV QP JSKADJ- WT
10	VILTATHUNNTOLG GLRELEVRNSELG RLWSLLTLPWAELG	-83	RIL T S D K V - 1010 A C B V R E R A R A H P C
1	- <u>000</u>	l	882 हिन्

Figure 1.2

CCTCAGAGGGAGAAGATTATCTTCCGATACTGTGCTGGCAGCTGTCCCCAAGAGGTCCGTACC	62
CCTCAGAGGAGAAGATTATCTTCCGATACTGTGCTGGCAGGCA	20
CAGCACAGTCTGGTGCTGGCCCGTCTTCGAGGGCAGGGTCGAGCTCATGGCAGACCTTGC	122
CAGCACAGTCTGGTGCTGGCCCGTCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCTTCGAGGGCTGCCTTCGAGGGCTGCCTTCGAGGGCTGCTGAGGGCTGCTGAGGGCTGCTGAGGAGGGCTGAGGAGGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	40
TGCCAGCCCACCAGCTATGCTGATGTGACCTTCCTTGATGACCACCACCACTTGGCAGCAG	182
TGCCAGCCCACCAGCIAIGCIGATOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO	60
CTGCCTCAGCTCTCAGCCGCAGCTTGTGGCTGTGGTGGCTGAAGGCGGCCAGCCTGGTCT	242
CTGCCTCAGCTCTCAGCCGCAGCTTGTGTGTGTGTGTGTG	73
CTCAGAATCACAAGCAAGAGGCAGCCTTTGAAAGGCTCAGGTGACGTTATTAGAAACTTG	302
CATAGGAGAAGATTAAGAAGAGAAAGGGGACCTG	336
CATAGGAGAGAI I MAGAMOMOMOMOMOMOMOMOMOMOMOMOMOMOMOMOMOMO	

TGCCGGCTGTGGAGCCTGACCCTACCAGTGGCTGAGCTTGGCCTGGGCTATGCCTCAGAG	60
Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly Tyr Ala Ser Glu	20
GAGAAGATTATCTTCCGATACTGTGCTGGCAGCTGTCCCCAAGAGGTCCGTACCCAGCAC	120
Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Gln Glu Val Arg Thr Gln His	40
AGTCTGGTGCTGGCCGTCTTCGAGGGCAGGGTCGAGCTCATGGCAGACCTTGCTGCCAG	180
Ser Leu Val Leu Ala Arg Leu Arg Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln	60
CCCACCAGCTATGCTGATGTGACCTTCCTTGATGACCACCACTTGGCAGCAGCTGCCT	240
Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro	80
CAGCTCTCAGCCGCAGCTTGTGGCTGTGGTGGCTGAAGGCGGCCAGCCTGGTCTCTCAGA Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly	300 91
	31
ATCACAAGCAAGAGGCAGCCTTTGAAAGGCTCAGGTGACGTTATTAGAAACTTGCATAGG	360
AGAAGATTAAGAAGAGAAAGGGGACCTGATT	391

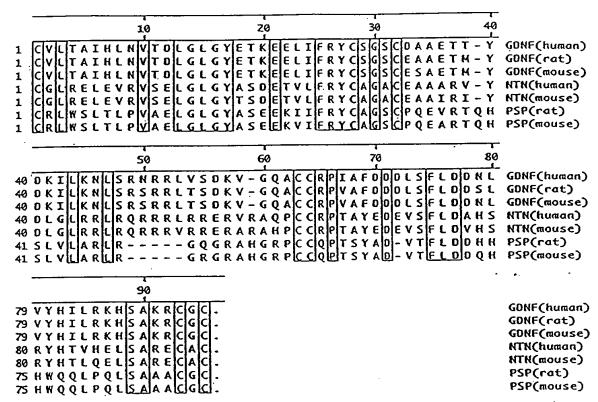


Figure 15 A

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Figure 15B

FIGURE 16

1	ATGGCTGCAG	GAAGACTTCG	GATCCTGTGT	CTGCTGCTCC	TGTCCTTGCA	CCCGAGCCTC
	TACCGACGTC	CTTCTGAAGC	CTAGGACACA	GACGACGAGG	ACAGGAACGT	GGGCTCGGAG
61	GGCTGGGTCC	TTGATCTTCA	AGAGGCTTCT	GTGGCAGATA	AGCTCTCATT	TGGGAAGATG
	CCGACCCAGG	AACTAGAAGT	TCTCCGAAGA	CACCGTCTAT	TCGAGAGTAA	ACCCTTCTAC
!21	GCAGAGACTA	GAGGGACCTG	GACGCCCCAT	CAGGGTAAGA	ATTCCTGGGG	GCCTCCCGAC
	CGTCTCTGAT	CTCCCTGGAC	CTGCGGGGTA	GTCCCATTCT	TAAGGACCCC	CGGAGGGCTG
181	TCCCCAATTC	CTTCTCTCAA	AGCCCTCACT	TTGCCTTACA	ATCCTACTCT	ACCTTGCACT
	AGGGGTTAAG	GAAGAGAGTT	TCGGGAGTGA	AACGGAATGT	TAGGATGAGA	TGGAACGTGA
241	↓ AGGTAACAAC TCCATTGTTG	CATGTCCGTC GTACAGGCAG	TTCCAAGAGC AAGGTTCTCG	CTTGGCTGGT GAACCGACCA	TCATGCCGAC AGTACGGCTG	TGTGGAGCCT ACACCTCGGA
301 _{5%}	GACCCTACCA	GTGGCTGAGC	TGGGCCTGGG	CTATGCCTCG	GAGGAGAAGG	TCATCTTCCG
	CTGGGATGGT	CACCGACTCG	ACCCGGACCC	GATACGGAGC	CTCCTCTTCC	AGTAGAAGGC
}61	ATACTGTGCT	GGCAGCTGTC	CCCAAGAGGC	CCGTACCCAG	CACAGTCTGG	TACTGGCCCG
	TATGACACGA	CCGTCGACAG	GGGTTCTCCG	GGCATGGGTC	GTGTCAGACC	ATGACCGGGC
۷2 <u>ب</u>	GCTTCGAGGG	CGGGGTCGAG	CCCATGGCCG	ACCCTGCTGC	CAGCCCACCA	GCTATGCTGA
ال	CGAAGCTCCC	GCCCCAGCTC	GGGTACCGGC	TGGGACGACG	GTCGGGTGGT	CGATACGACT
481	TGTGACCTTC	CTTGATGATC	AGCACCATTG	GCAGCAGCTG	CCTCAGCTCT	CAGCTGCAGC
m	ACACTGGAAG	GAACTACTAG	TCGTGGTAAC	CGTCGTCGAC	GGAGTCGAGA	GTCGACGTCG
541 1 4	TTGTGGCTGT	GGTGGCTGAA	GGAGGCCAGT	CTGGTGTCTC	AGAATCACAA	GCATGAGACA
	AACACCGACA	CCACCGACTT	CCTCCGGTCA	GACCACAGAG	TCTTAGTGTT	CGTACTCTGT
UIO3	GGCTGGGCTT	TGAAAGGCTC	AGGTGACATT	ACTAGAAATT	TGCATAGGTA	AAGATAAGAA
UI	CCGACCCGAA	ACTTTCCGAG	TCCACTGTAA	TGATCTTTAA	ACGTATCCAT	TTCTATTCTT
.610	GGGAAAGGAC	CAGGGGTTTT	TTGTTTCTTT	CTTTGCTTGC	TTGTTAGTTT	TTTTTTTTT
Teach	CCCTTTCCTG	GTCCCCAAAA	AACAAAGAAA	GAAACGAACG	AACAATCAAA	AAAAAAAAA
721	TTT AAA	,				

Figure 17A

1	ATGGCTGCAG TACCGACGTC	GAAGACTTCG GATCCTGTGT CTTCTGAAGC CTAGGACACA	CTGCTGCTCC GACGACGAGG	TGTCCTTGCA ACAGGAACGT	CCCGAGCCTC GGGCTCGGAG
1	M A A G	RLRILC	L L L L	S L H	P S L
61	GGCTGGGTCC CCGACCCAGG	TTGATCTTCA AGAGGCTTCT AACTAGAAGT TCTCCGAAGA	GTGGCAGATA CACCGTCTAT	AGCTCTCATT TCGAGAGTAA	TGGGAAGATG ACCCTTCTAC
21	G M A \rangle T.	D L Q E A S	V A D K	LSF	G K M
121 41	GCAGAGACTA CGTCTCTGAT A E T R	GAGGGACCTG GACGCCCCAT CTCCCTGGAC CTGCGGGGTA G T W T P H	CAGGGTAACA GTCCCATTGT O G N N	ACCATGTCCG TGGTACAGGC H V R	TCTTCCAAGA AGAAGGTTCT L P R
181		GTTCATGCCG ACTGTGGAGC	~ -	CAGTGGCTGA	GCTGGGCCTG
181	CGGAACCGAC	CAAGTACGGC TGACACCTCG	GACTGGGATG	GTCACCGACT	CGACCCGGAC
61	A L A G	S C R L W S	L T L P	V A E	L G L
241	GGCTATGCCT CCGATACGGA	CGGAGGAGAA GGTCATCTTC GCCTCCTCTT CCAGTAGAAG	GCTATGACAC	GACCGTCGAC	AGGGGTTCTC
81	G Y A S	EEKVIF	RYCA	G S C	PQE
3 <u>0</u> 1 101		AGCACAGTCT GGTACTGGCC TCGTGTCAGA CCATGACCGG H S L V L A	CGGCTTCGAG GCCGAAGCTC R L R G	GGCGGGGTCG CCGCCCAGC R G R	AGCCCATGGC TCGGGTACCG A H G
3 <u>6</u> 7	CGACCCTGCT GCTGGGACGA	GCCAGCCCAC CAGCTATGCT CGGTCGGGTG GTCGATACGA	CTACACTGGA	AGGAACTACT	AGTCGTGGTA
121	R P C C	Q P T S Y A		L D D	*
42 <u>1</u>	TGGCAGCAGC ACCGTCGTCG	TGCCTCAGCT CTCAGCTGCA ACGGAGTCGA GAGTCGACGT	CGAACACCGA	CACCACCGAC	A T
141	WOOL	P Q L S A A	A C G C	GG.	÷
2	~ ~	, ,			

Figure 17B

1	ATGGCTGCAG TACCGACGTC				TGTCCTTGCA ACAGGAACGT	
61					AGCTCTCATC TCGAGAGTAG	
121					ATTCTTGGGG TAAGAACCCC	
181					ATCCTATTCT TAGGATAAGA	
241					TTGTGCCGGC AACACGGCCG	
301					GAGGAGAAGA CTCCTCTTCT	
361 TU					CACAGTCTGG GTGTCAGACC	
421					CAGCCCACCA GTCGGGTGGT	
481					CCTCAGCTCT GGAGTCGAGA	
541 170 170 170 170 170 170 170 170 170 17	TTGTGGCTGT AACACCGACA					
Ö	Figure 18A					

Figure 18A

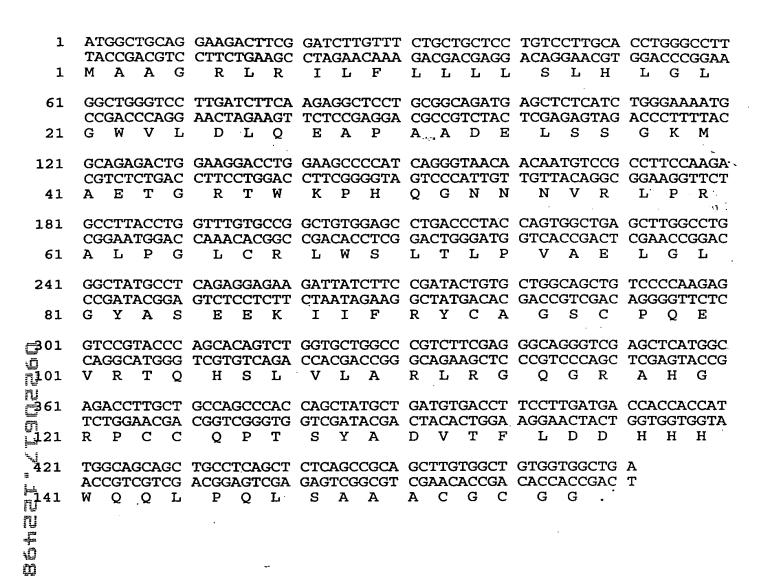


Figure 18B

4.3

46 kd — 30 kd — 21 kd — 14 kd — 6 kd —

FIGURE 20A

8ub 6

PSP/NTN (SEQ ID NO:137)

ALAGSCRLWSLTLPVAELGLGYASEEKVIFRYCAGSCPQEARTQHSLVLA 50
RLRGRGRAHGRPCCRPTAYEDEVSFLDVHSRYHTLQELSARECACV 96

FIGURE 20E

NTN/PSP (SEQ ID NO:142)

PGARPCGLRELEVRVSELG/GYTSDETVLFRYCAGACEAAIRIYDLGLRR 50
LRQRRVRRERARAHPCQQPTSYADVTFLDDQHHWQQLPQLSAAACGCGG 100

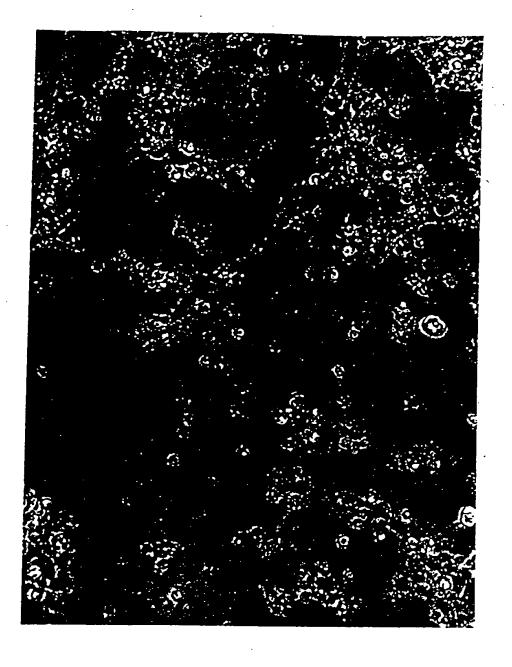


Figure 21a

Figure 21b

TOH labeled cells in E14 mesencephalic cultures

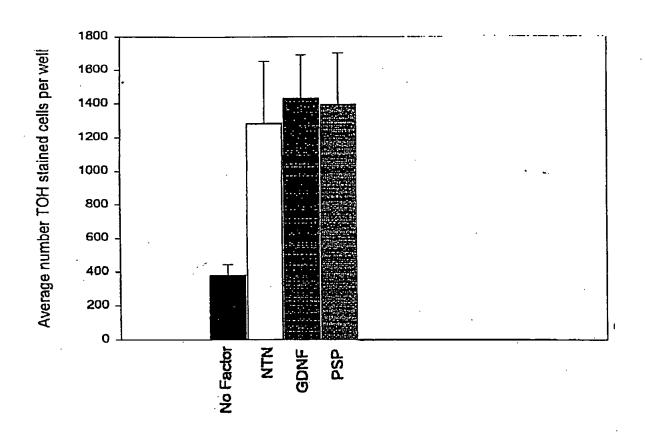


Figure 22

Water

Kidney no RT

Cerebellum

Lung

Brain

Kidney

- Persephin

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G ATGGCCGTAG GGAAGTTCCT GCTGGGCTCT CTGCTGCTCC TGTCCCTGCA GCTGGGACAG TACCGGCATC CCTTCAAGGA CGACCCGAGA GACGACGAGG ACAGGGACGT CGACCCTGTC L L L L GGCTGGGGCC CCGATGCCCG TGGGGTTCCC GTGGCCGATG GAGAGTTCTC GTCTGAACAG CCGACCCCGG GGCTACGGGC ACCCCAAGGG CACCGGCTAC CTCTCAAGAG CAGACTTGTC 21 V A D G E F S GTGGCAAAGG CTGGAGGAC CTGGCTGGGC ACCCACCGCC CCCTTGCCCG CCTGCGCCGA 121 CACCGTTTCC GACCTCCTG GACCGACCCG TGGGTGGCGG GGGAACGGGC GGACGCGGCT 41 L G THRP L A R GCCCTGTCTG GTCCATGCCA GCTGTGGAGC CTGACCCTGT CCGTGGCAGA GCTAGGCCTG 181 CGGGACAGAC CAGGTACGGT CGACACCTCG GACTGGGACA GGCACCGTCT CGATCCGGAC 61 ALSG L T L S V A GGCTACGCCT CAGAGGAGAA GGTCATCTTC CGCTACTGCG CCGGCAGCTG CCCCCGTGGT CCGATGCGGA GTCTCCTCTT CCAGTAGAAG GCGATGACGC GGCCGTCGAC GGGGGCACCA 81 V I F R Y C A G S C GCCCGCACCC AGCATGCCCT GGCGCTGGCC CGGCTGCAGG GCCAGGGCCG AGCCCACGGT 301 CGGGCGTGGG TCGTACCGGA CCGCGACCGG GCCGACGTCC CGGTCCCGGC TCGGGTGCCA 101 ALA R L Q G QGR GGGCCCTGCT GCCGGCCCAC TCGCTACACC GACGTGGCCT TCCTCGATGA CCGCCACCGC 36₫ CCCGGGACGA CGGCCGGGTG AGCGATGTGG CTGCACCGGA AGGAGCTACT GGCGGTGGCG R Y T D V A F TGGCAGCGC TGCCCCAGCT CTCGGCGGCT GCCTGCGGCT GTGGTGGCTG A ACCGTCGCCG ACGGGGTCGA GAGCCGCCGA CGGACGCCGA CACCACCGAC T PQL S A A ACGC G G